LARGE FIRE LABORATORY

VISION

Reduce fire related casualties and property losses through safe, large scale

fire experiments and metrology

MISSION

- 1. Develop improved fire metrology capabilities for large fires
- 2. Conduct model validation/verification experiments in intermediate and large-scale settings
- 3. Help set standards for fire testing

CAPABILITIES

- > 9x37 m Test Area
- > 3,300 Standard Cubic Meters/Min Flue Gas Cleaning System
- ► 6x6 m and 9x12 m Calorimetry
- > 380 Channel Data Acquisition System

ONGOING PROGRAMS

- ➤ WTC Investigation
- > RI and Chicago Investigations
- Nuclear Regulatory Commission Fire Model Validation
- CPSC Mattress Evaluations
- ➤ Wildland Urban Interface Experiments
- > Structure Separation Experiments (suburban planning)
- ➤ Heat Release Rate and Smoke Volume Fraction Measurements

IMPROVEMENTS

- > NIST Designed and built Calibration Burner
- > Improved Safety and Experiment Running Procedures
- ➤ Modular Insitu Data Acquisition System
- ➤ Load Cell Systems
- > Flue Gas Cleaning System Operation and Maintenance
- ➤ Flammable Liquid Fuel Delivery System
- ➤ Instrumentation Specialist (contractor)













